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=> d full his

        (FILE 'HOME' ENTERED AT 16:27:52 ON 06 MAR 2003)

        FILE 'REGISTRY' ENTERED AT 16:27:57 ON 06 MAR 2003

        FILE 'CAOLD, CAPLUS, CASREACT, CROPU, DGENE, DPCI, ENCOMPPAT, ENCOMPPAT2,
        EUROPATFULL, IFIPAT, INPADOC, JAPIO, PAPERCHEM2, PATDD, PATDPA, PATOSDE,
        PATOSEP, PATOSWO, PCTFULL, PIRA, RAPRA, SYNTHLINE, TULSA, TULSA2,
        USPATFULL, USPAT2, WPIDS' ENTERED AT 16:28:51 ON 06 MAR 2003

        FILE 'REGISTRY' ENTERED AT 16:30:30 ON 06 MAR 2003
L1             1 SEA ABB=ON  PLU=ON   72506-70-8/RN

        FILE 'CAOLD, CAPLUS, CASREACT, CROPU, DGENE, DPCI, ENCOMPPAT, ENCOMPPAT2,
        EUROPATFULL, IFIPAT, INPADOC, JAPIO, PAPERCHEM2, PATDD, PATDPA, PATOSDE,
        PATOSEP, PATOSWO, PCTFULL, PIRA, RAPRA, SYNTHLINE, TULSA, TULSA2,
        USPATFULL, USPAT2, WPIDS' ENTERED AT 16:31:01 ON 06 MAR 2003

        FILE 'REGISTRY' ENTERED AT 16:31:08 ON 06 MAR 2003
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L2             SEL PLU=ON  L1 1- CHEM :        5 TERMS
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        FILE 'CAOLD, CAPLUS, CASREACT, CROPU, DGENE, DPCI, ENCOMPPAT, ENCOMPPAT2,
        EUROPATFULL, IFIPAT, INPADOC, JAPIO, PAPERCHEM2, PATDD, PATDPA, PATOSDE,
        PATOSEP, PATOSWO, PCTFULL, PIRA, RAPRA, SYNTHLINE, TULSA, TULSA2,
        USPATFULL, USPAT2, WPIDS' ENTERED AT 16:31:10 ON 06 MAR 2003
L3            21 SEA ABB=ON  PLU=ON   L2
L4             1 SEA ABB=ON  PLU=ON   L3 (L) (CORYNEBACTERIA OR CORYNEBACTERIA
                 GLUTAMICUM OR (BACTERIA (L) CORYNEFORM))
L5             0 SEA ABB=ON  PLU=ON   L4 (L) (DNA OR CDNA OR NUCLEIC ACID OR
                 POLYNUCLEOTIDE)
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L4   ANSWER 1 OF 1   CAPLUS   COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:240996   CAPLUS
DOCUMENT NUMBER: 136:258366
TITLE: Coryneform bacteria menE gene encoding
                           o-succinylbenzoic acid coA ligase and a method for
                           fermentative preparation of amino acids in bacteria in
                           which the menE gene is attenuated
INVENTOR(S):   Farwick, Mike; Huthmacher, Klaus; Pfefferle, Walter;
                           Marx, Achim
PATENT ASSIGNEE(S):   Degussa A.-G., Germany
SOURCE: PCT Int. Appl., 43 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

        PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
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        WO 2002024937   A1   20020328   WO 2001-EP9221   20010809
            W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
                 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
                 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
                 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
                 RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
                 VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
            RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
                 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
                 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
        DE 10112106   A1   20020328   DE 2001-10112106 20010314
        US 2002102663   A1   20020801   US 2001-834722   20010416
        AU 2001079811   A5   20020402   AU 2001-79811   20010809
PRIORITY APPLN. INFO.:   DE 2000-10046624 A 20000920
                                                   DE 2001-10112106 A 20010314
                                                   WO 2001-EP9221   W 20010809

AB   The invention relates to Corynebacterium glutamicum menE gene encoding
     o-succinylbenzoic acid coA ligase. The invention also relates to
     integration mutagenesis of the menE gene in Coryneform bacteria strain DSM
     5715 and uses of the strain for fermn. of amino acid. The invention also
     relates to other genes encoding enzyme or protein involved in fermn. of
     amino acid in bacteria. The invention also relates to process for the
     fermentative prepn. of L-amino acids using coryneform bacteria in which at
     least the menE gene coding for an O-succinylbenzoic acid COA ligase is
     present in attenuated form.
REFERENCE COUNT: 5   THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
                                   RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> s 72506-70-8/rn
L1              1 72506-70-8/RN

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L1     ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS
RN     72506-70-8  REGISTRY
CN     Synthetase, o-succinylbenzoyl coenzyme A (9CI)   (CA INDEX NAME)
OTHER NAMES:
CN     E.C. 6.2.1.26
CN     o-Succinylbenzoate-CoA ligase
CN     o-Succinylbenzoyl-coenzyme A synthetase
CN     Succinylbenzoyl-CoA synthetase
MF     Unspecified
CI     MAN
LC     STN Files:   BIOSIS, CA, CAPLUS, TOXCENTER, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
                17 REFERENCES IN FILE CA (1962 TO DATE)
                17 REFERENCES IN FILE CAPLUS (1962 TO DATE)
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      (FILE 'HOME' ENTERED AT 16:05:27 ON 06 MAR 2003)

      FILE 'REGISTRY' ENTERED AT 16:05:38 ON 06 MAR 2003
L1          1 SEA ABB=ON  PLU=ON  72506-70-8/RN
              D

      FILE 'HCAPLUS' ENTERED AT 16:11:02 ON 06 MAR 2003

      FILE 'REGISTRY' ENTERED AT 16:11:06 ON 06 MAR 2003
              SET SMARTSELECT ON
L2            SEL PLU=ON  L1 1- CHEM :        5 TERMS
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      FILE 'HCAPLUS' ENTERED AT 16:11:07 ON 06 MAR 2003
L3         17 SEA ABB=ON  PLU=ON  L2
L4          1 SEA ABB=ON  PLU=ON  L3 (L) (CORYNEBACTERIA OR CORYNEBACTERIA
              GLUTAMICUM OR (BACTERIA (L) CORYNEFORM))
L5          0 SEA ABB=ON  PLU=ON  L4 (L) (DNA OR CDNA OR NUCLEIC ACID OR
              POLYNUCLEOTIDE)
```

L4   ANSWER 1 OF 1   HCAPLUS   COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:240996 HCAPLUS
DOCUMENT NUMBER: 136:258366
TITLE: Coryneform bacteria menE gene encoding
                           o-succinylbenzoic acid coA ligase and a method for
                           fermentative preparation of amino acids in bacteria in
                           which the menE gene is attenuated
INVENTOR(S):   Farwick, Mike; Huthmacher, Klaus; Pfefferle, Walter;
                           Marx, Achim
PATENT ASSIGNEE(S):   Degussa A.-G., Germany
SOURCE: PCT Int. Appl., 43 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

        PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
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        WO 2002024937   A1   20020328   WO 2001-EP9221   20010809
            W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
                 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
                 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
                 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
                 RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
                 VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
            RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
                 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
                 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
        DE 10112106   A1   20020328   DE 2001-10112106 20010314
        US 2002102663   A1   20020801   US 2001-834722   20010416
        AU 2001079811   A5   20020402   AU 2001-79811   20010809
PRIORITY APPLN. INFO.:   DE 2000-10046624 A   20000920
                                                 DE 2001-10112106 A   20010314
                                                 WO 2001-EP9221   W   20010809

AB   The invention relates to Corynebacterium glutamicum menE gene encoding
     o-succinylbenzoic acid coA ligase. The invention also relates to
     integration mutagenesis of the menE gene in Coryneform bacteria strain DSM
     5715 and uses of the strain for fermn. of amino acid. The invention also
     relates to other genes encoding enzyme or protein involved in fermn. of
     amino acid in bacteria. The invention also relates to process for the
     fermentative prepn. of L-amino acids using coryneform bacteria in which at
     least the menE gene coding for an O-succinylbenzoic acid COA ligase is
     present in attenuated form.
REFERENCE COUNT: 5   THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
                                  RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> d full his

        (FILE 'HOME' ENTERED AT 16:13:58 ON 06 MAR 2003)

        FILE 'REGISTRY' ENTERED AT 16:14:12 ON 06 MAR 2003
L1              1 SEA ABB=ON  PLU=ON  72506-70-8/RN

        FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
        BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT,
        CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DGENE, DRUGB,
        DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, ...' ENTERED AT
        16:14:33 ON 06 MAR 2003

        FILE 'REGISTRY' ENTERED AT 16:14:43 ON 06 MAR 2003
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L2              SEL PLU=ON  L1 1- CHEM :        5 TERMS
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        FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
        BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT,
        CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DGENE, DRUGB,
        DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, ...' ENTERED AT
        16:14:45 ON 06 MAR 2003
L3             69 SEA ABB=ON  PLU=ON  L2
L4             37 DUP REM L3 (32 DUPLICATES REMOVED)
L5              1 SEA ABB=ON  PLU=ON  L4 (L) (CORYNEBACTERIA OR CORYNEBACTERIA
                  GLUTAMICUM OR (BACTERIA (L) CORYNEFORM))
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